

30 kW Wireless Charging System

Highly efficiency wireless charging for industrial electric vehicles providing up to 300 A. Ideal for fast and opportunity charging.

- No part wear
- Fully automated charging
- Charges lithium batteries fast and frequently





MOOV^{air}30 Wireless Charging System



Product Overview



Primary Box (WPB)



Primary Pad (WPP)



Secondary Unit (WSU)

Specifications

Product Line		MOOV ^{air} 30	
AC Input			
AC Input Rated Voltage		380 to 480 V _{AC} 3PH	
AC Input Voltage Range		342 to 528 V _{AC} 3PH	
AC Input Frequency		47 Hz to 63 Hz	
Maximum AC Input Current		48 A	
Power Factor (100% Load)		0.95	
Peak Efficiency		> 95%	
Standby Power ¹		≤ 10 W	
DC Output			
DC Output Nominal Voltage		100 V _{DC}	
DC Output Voltage Range		72 to 120 V _{DC}	
Maximum Charge Current		300 A	
Maximum Output Power		30 kW	
Battery Type		Lithium lon	
Output Protection		Over voltage, over current, short circuit, reverse connection	
-		Pending	
Parallel Operation Standby Power ²		< 2 W	
Charge Modes	Set points from vehicle	CANopen [®]	
Environmental Co			
	WPB	+5 °C to +40 °C (41 °F to 104 °F)	
Operating	WPP	-40 °C to +70 °C (-40 °F to 158 °F)	
Temperature ³	WSU	-40 °C to +80 °C (-40 °F to 176 °F)	
Storage Tempera	ture	-45 °C to +70 °C (-49 °F to 158 °F)	
Deletivo	WPB	5% to 85%, non-condensing	
Relative Humidity	WPP	4% to 100%	
	WSU	15% to 100%	
Maximum Operating Altitude		3,000 m (9,842 ft)	
Ingress Protection	WPB	IP21	
	WPP	IP69	
	WSU	IP69	
Mechanical Desig			
Pad Air-gap Range		105 ^{+/-5} to 155 ^{+/-5} mm (4.1 ^{+/-0.2} to 6.1 ^{+/-0.2} in)	
Maximum Misalignment		± 50 mm (± 2.0 in) up/down and left/right	
	WPB	1020 x 550 x 400 mm (40.2 x 21.7 x 15.7 in)	
Dimensions	WPP	665 x 1020 x 65 mm (26.2 x 40.2 x 2.6 in)	
(L x W x H)	WSU	565 x 735 x 50 mm (22.2 x 28.9 x 2.0 in)	
Weight	WPB	105 kg (231.5 lbs)	
	WPP	77 kg (169.7 lbs)	
	WSU	47 kg (103.6 lbs)	
Cable Lengths	$WPB \to WPP$	5.0 m (196.8 in)	
	WSU (DC Output)	2.0 m (78.7 in)	
	WSU Aux / Comms	0.5 m (19.7 in)	
Cooling	WPB	Forced air	
	WPP	Convection	
	WSU	Convection	
Status LED's		WPB & WPP, stack light interface	

Approvals and Compliance	Europe (EEA/EFTA/UK)	USA	Canada
Safety Marks	CE	_c MET _{us}	
		UL 62368-1:2019 Ed.3 CSA C22.2 No.62368-1:2019 Ed.3	
Cofety	EN 62368-1:2014 +		
Safety	A11:2017	UL 1564 Ed.4	
		CSA 22.2 No. 107.2-01	
	EN 303 446-2 V1.2.1	FCC part 18 subpart C Pending	
	EN 301 489-1 V2.2.3;		
EMC	EN 301 489-3 V1.6.1		Donding
ENIC	EN 55011:2016 +		Pending
	A1:2017+A11 :2020		
	EN IEC 61000-6-2:2019		
RF	EN 300 330	FCC part 15 subpart C	Pending
	EN 62311	FCC Part 1.1307	
EMF		KDB 447498 D01	Pending
		KDB 680106 D01	

1 WPB connected to AC but not charging 2 Secondary Unit connected to battery and not charging

3 Derating above 40 °C



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More information

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March 2024 Revision 3.0